

**PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Docket No: 29926/39470**

**PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Transmitted herewith for filing is the patent application of

Inventor: Sang-Tae Choi and Seung-Weon Paek

Title: Method for Forming Ultra Fine Contact Holes in Semiconductor Devices

**1. Type of Application**

- ☒ This is a new application for a  
    ☒ utility patent.  
    ☐ design patent.  
☐ This is a continuation-in-part application of prior application no.

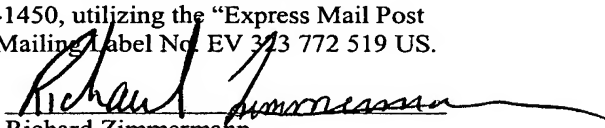
**2. Application Papers Enclosed**

- 1 Title Page  
4 Pages of Specification (excluding Claims, Abstract, Drawings & Sequence Listing)  
2 Pages of Claims  
1 Page of Abstract  
3 Sheets of Drawings (Figs. 1A to 1E)  
    ☒ Formal  
    ☐ Informal

---

**CERTIFICATION UNDER 37 CFR 1.10**

I hereby certify that this Patent Application Transmittal and the documents referred to as enclosed therewith are being deposited with the United States Postal Service on **July 18, 2003**, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EV 373 772 519 US.

  
Richard Zimmermann

**3. Declaration or Oath**

- ☐ Enclosed
- ☐ Executed by (check all applicable boxes)
- ☐ Inventors
- ☐ Legal representative of inventor(s)  
(37 CFR 1.42 or 1.43)
- ☐ Joint inventor or person showing a proprietary interest  
on behalf of inventor who refused to sign or cannot be  
reached
- ☐ The petition required by 37 CFR 1.47 and the statement  
required by 37 CFR 1.47 are enclosed. See Item 5D  
below for fee.
- ☒ Not enclosed - the undersigned attorney or agent is authorized to file this  
application on behalf of the applicant(s). An executed declaration will follow.

**4. Small Entity Status**

- ☐ Applicant claims small entity status. See 37 CFR 1.27.

**5. Additional Papers Enclosed**

- ☐ Preliminary Amendment
- ☒ Information Disclosure Statement
- ☐ Declaration of Biological Deposit
- ☐ Computer readable copy of sequence listing containing nucleotide and/or  
amino acid sequence
- ☐ Microfiche computer program
- ☐ Associate Power of Attorney
- ☐ Verified translation of a non-English patent application
- ☐ An assignment of the invention
- ☐ Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)
- ☒ Return receipt postcard
- ☐ Other

**6. Priority Applications Under 35 USC 119**

A certified copy of the application from which priority under 35 USC 119 is claimed  
is listed below and

- ☒ is attached.
- ☐ will follow.

COUNTRY	APPLICATION NO.	FILED
Republic of Korea	2002-42319	July 19, 2002

7. **Filing Fee Calculation (37 CFR 1.16)**

A. ☒ **Utility Application**

**CLAIMS AS FILED - INCLUDING PRELIMINARY AMENDMENT (IF ANY)**

			SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	NO. FILED	NO. EXTRA	RATE	FEE	RATE	FEE
BASIC FEE				\$375.00		\$750.00
TOTAL	7 - 20	= 0	X 9 =	\$	X 18 =	\$00.00
INDEP.	1 - 3	= 0	X 42 =	\$	X 84 =	\$00.00
: First Presentation of Multiple Dependent Claim			+ 140 =	\$	+ 280 =	\$
Filing Fee:				\$	<b>OR</b>	\$750.00

B. **Design Application**

Filing Fee: \$ \_\_\_\_\_

C. **Plant Application**

Filing Fee: \$ \_\_\_\_\_

D. **Other Fees**

- ☐ Recording Assignment \$ \_\_\_\_\_
- ☐ Petition fee for filing by other than all the inventors  
or person on behalf of the inventor where inventor refused  
to sign or cannot be reached \$ \_\_\_\_\_
- ☐ Other \$ \_\_\_\_\_

**Total Fees Enclosed \$750.00**

8. **Method of Payment of Fees**

- ☒ Enclosed check in the amount of: \$750.00
- ☐ Charge Deposit Account No. 13-2855 in the amount of: \$ \_\_\_\_\_  
A copy of this Transmittal is enclosed.
- ☐ Not enclosed

**9. Deposit Account and Refund Authorization**

The Commissioner is hereby authorized to charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 37 CFR 1.17 or under other applicable rules (except payment of issue fees), to Deposit Account No. 13-2855. A copy of this Transmittal is enclosed.

Please refund any overpayment to Marshall, Gerstein & Borun at the address below.

**10. Correspondence Address**

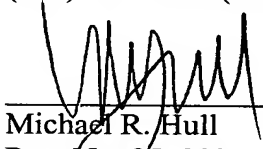
Customer No.: 04743

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN  
6300 Sears Tower  
233 South Wacker Drive  
Chicago, Illinois 60606-6357  
(312) 474-6300  
(312) 474-0448 (Telefacsimile)

July 18, 2003

By:

  
\_\_\_\_\_  
Michael R. Hull  
Reg. No. 35, 902